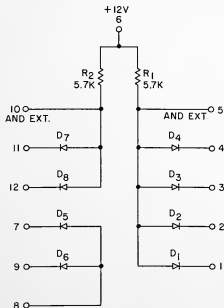


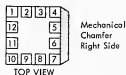
Functional Description

The AND OR Extender, AOX-3C, is used to extend the AND fan-in of either the AOI-1C, AOI-2C or DAOI-2C Modules. The AOX-3C can also be used to extend the OR fan-in of the AOI-1C.

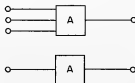
Schematic



Terminal Configuration



Block Diagram



Maximum Ratings

Diode Breakdown Voltage = 13V

Maximum Diode Current = 5 Milliamps

A0X-3C Module Functional Tests

INDIVIDUAL DEVICE PARAMETER TESTS						
TESTS	COM- PONENTS	TEST CONDITIONS	T °C	LIMITS		UNITS
				MIN	MAX	
V _F	D ₁ - D ₈	I _F = 0,10ma	25	0,51		V
V _F	D ₁ - D ₈	I _F = 1,0ma	25		0,80	V
V _F	D ₁ - D ₈	I _F = 5,0ma	25		1,0	V
BV _R	D ₁ - D ₈	I _R = 0,01ma	25	13,0		V
I _R	D ₁ - D ₈	V _R = 12,0V	75		1,0	μa
DIODE CAPACITANCE	D ₁ - D ₈	0V BIAS, f = 1 ± 0,5 mhz AC SIGNAL ≤ 50mv P-P	25		3,5	pf
END OF LIFE RESISTOR TOLERANCE	R ₁ , R ₂		25 75	-8	+8	%

Circuit Characteristics

Input requirements are the same as input requirements of the AOI-1C module

Maximum Power Supply Current Requirements

+12V	$\frac{\text{ON}}{4,2\text{ma}}$	$\frac{\text{OFF}}{4,6\text{ma}}$
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Maximum Power Dissipation

$\frac{\text{ON}}{55,0\text{mw}}$	$\frac{\text{OFF}}{64,0\text{mw}}$
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$$\text{Average Normal Power Dissipation} = \frac{\text{NOMINAL ON} + \text{NOMINAL OFF}}{2} = 40,3\text{mw}$$